

INTERNATIONAL SEARCH REPORT

International Application No

IB2004/051065

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H03J7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B H03J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 148 642 A (NIPPON ELECTRIC CO) 24 October 2001 (2001-10-24) page 2, paragraphs 1,3 page 3, line 4 - line 10 page 8, paragraph 54 - paragraph 59 page 9, paragraph 73 - page 10, paragraph 80 page 12, paragraph 110	1-31
Y	WO 03/032516 A (MOTOROLA INC) 17 April 2003 (2003-04-17) page 3, line 9 - line 12 page 9, line 10 - page 10, line 10 page 11, line 21 - page 12, line 23 figure 3	1-31
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
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Date of the actual completion of the international search

29 October 2004

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09/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 317 281 A (MOTOROLA ISRAEL LTD) 18 March 1998 (1998-03-18) cited in the application page 5, line 19 - line 27 -----	1-31
A	US 6 278 867 B1 (DENT PAUL WILKINSON ET AL) 21 August 2001 (2001-08-21) cited in the application claims 1,2 -----	1-31
A	EP 1 241 818 A (MATSUSHITA ELECTRIC IND CO LTD) 18 September 2002 (2002-09-18) cited in the application page 6, paragraph 55 - paragraph 58 -----	1-31

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

IB2004/051065

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1148642	A	24-10-2001	JP 2001308943 A CN 1318932 A EP 1148642 A2 US 2001053192 A1	02-11-2001 24-10-2001 24-10-2001 20-12-2001
WO 03032516	A	17-04-2003	US 2003068977 A1 EP 1436909 A1 TW 546485 B WO 03032516 A1	10-04-2003 14-07-2004 11-08-2003 17-04-2003
GB 2317281	A	18-03-1998	FR 2753587 A1 US 6081702 A	20-03-1998 27-06-2000
US 6278867	B1	21-08-2001	AU 6159199 A BR 9915659 A CN 1334989 T EP 1133825 A2 JP 2002530985 T WO 0031870 A2	13-06-2000 07-08-2001 06-02-2002 19-09-2001 17-09-2002 02-06-2000
EP 1241818	A	18-09-2002	JP 2002152081 A AU 1101902 A EP 1241818 A1 CN 1394405 T WO 0239634 A1 US 2003013423 A1	24-05-2002 21-05-2002 18-09-2002 29-01-2003 16-05-2002 16-01-2003